

MASTERLOCK®

SAFETY DATA SHEET

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: MASTERLOCK®
Other identifier: Modified vegetable oil
Recommended use: Adjuvant
Restrictions on use: Agriculture
Registration Holder: Winfield Solutions Registration Holdings (Pty) Ltd.
 Co Reg No 2015/312008/07
 PO Box 10413
 Aston Manor, 1630, South Africa
Telephone: (011) 3962233
Fax: (011) 3964666
Website: www.villacrop.co.za

Distributor: Villa Crop Protection (Pty) Ltd.
 PO Box 10413
 Aston Manor, 1630, South Africa
Telephone: (011) 3962233
Fax: (011) 3964666
Website: www.villacrop.co.za

Emergency telephone numbers:
24 Hr Transport / Spill emergency no:
 (Hazcall24) +27 86 044 4411
 (Client: Villa Crop Protection)
 Griffon Poison Information Centre +27 82 446 8946
 (Client: Villa Crop Protection)
Poisoning Emergency telephone numbers:
 Griffon Poison Information Centre +27 82 446 8946
 Poisons Information Centre +27 861 555 777

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Health		
Eye irritation	Eye Irr. 2B	H320
Inhalation	Acute Inhalation 4	H332

The most important adverse effects:
Physicochemical effects:
 None known
Human health effects:
 Harmful if inhaled. Causes eye irritation.

Label elements:



Signal word: Warning

Hazard statements:

H320: Causes eye irritation.
 H332: Harmful if inhaled.

Precautionary statements:

P261: Avoid breathing dust, fume, gas, mists, vapours or spray.
 P264+P265: Wash hands thoroughly after handling. Do not touch eyes.
 P271: Use only outdoors or in a well-ventilated area.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
 P337+P317: If eye irritation persists: Get medical help.

Special labelling of certain mixtures:

None known.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 4

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Composition:

Chemical Name	CAS	Conc. (% m/v)	Classification EC 1272/2008
Isobutyl alcohol	78-83-1	< 1%	Acute Inhalation 4 (H332) Eye Irr. 2B (H320)
Benzenesulfonic acid	26264-06-2	1 – 5%	Eye Irr. 2B (H320)

4. FIRST AID MEASURES

Remove victim from the area of exposure. Wash off remaining material with plenty of water.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

Eyes: Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention.**

Skin: Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if skin irritation persists.

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Anticipated acute effects:
 Harmful if inhaled. Causes eye irritation.
Anticipated delayed effects:
 None known.
Most important symptoms/effects:
 Causes eye irritation.
Advice to physician: There is no specific antidote known. Treat symptomatically and supportively.

suitable detergent. See Section 13 for disposal considerations.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.
Unsuitable Extinguishing Media: Water jet. Use a water jet only to cool heated containers.
Specific hazards: Asphyxiates such as carbon monoxide may result from combustion.
Special Fire Fighting Procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.
Personal protective equipment: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.

7. HANDLING AND STORAGE

Handling:
Precautions for safe handling: Harmful if inhaled. Avoid contact with eyes. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.
General occupational hygiene: Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet, or applying cosmetics. Workers should shower at the end of each workday. Launder all clothing before it is re-used again.
Storage:
Conditions for safe storage: Store in its original container in dry, cool, well-ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Keep out of reach of children, uninformed persons and animals. Do not contaminate other pesticides and fertilizers.
Incompatible substances and mixtures: Refer to product label.
Packaging material: Fluorinated plastic containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes. Do not breathe in fumes.
Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
Emergency procedures: Evacuate non-essential personnel downwind of the spill.
Environmental Precautions: Keep spilled product from entering sewers, waterways or ground water.
Methods and Materials for Containment: Contain spilled product by diking area with sand or earth.
Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration:

Components	Exposure limits	Type of exposure limit	Source
Isobutyl alcohol (CAS # 78-83-1)	50 ppm	150 mg/m ³ (TWA)	OSHA PEL

Engineering Controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

Personal Protective Equipment:

Respiratory Protection: For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved air-

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purifying respirator with cartridges/canisters approved for organic vapours.

Hand Protection: The use of chemically protective gloves is recommended to prevent against skin contact.

Eye Protection: The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Worker must wear appropriate protective clothing; rubber boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow liquid, Emulsifiable concentrate.

Odour: Feint odour.

pH (1% aqueous dilution): 5.5 @ 26 °C.

Melting point: Not available.

Freezing Point: 0 °C.

Boiling Point: Not available.

Flash Point: > 93 °C.

Flammability: Not available.

Upper/lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density: 0.894 g/ml @ 26 °C.

Solubility: Emulsifies in water.

n-octanol/water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

10. STABILITY AND REACTIVITY

Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions.

Reactivity: None known.

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: Extreme heat or exposure to flames.

Incompatible Materials: Strong oxidizers, strong bases, strong reducing agents.

Hazardous Decomposition Products: Alcohols. Carbon monoxide and carbon dioxide may form under burning conditions or with incomplete combustion.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Based on experimental data:

Oral LD₅₀: > 5,000 mg/kg.

Dermal LD50: > 5,050 mg/kg.

Inhalation LC50: > 2.09 mg/l (4 hr).

Skin irritation: Animal tests showed the product to be non-irritating.

Eye irritation: May cause mild but temporary eye irritation. Animal tests showed the product to be minimally irritating.

Skin Sensitization: Product is not a skin sensitizer.

Respiratory Sensitization: Not calculated.

Reproductive cell mutagenicity: Not calculated.

Carcinogenicity: Not calculated.

Reproductive toxicity: Not calculated.

Specific target organ toxicity – single exposure: Not calculated.

Specific target organ toxicity – repeated exposure: Not calculated.

Aspiration hazard: Not calculated.

Chronic effects: Not calculated.

POTENTIAL ADVERSE EFFECTS:

Inhalation: May cause minor irritation of the upper respiratory tract.

Eye contact: May cause mild but reversible eye irritation.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This product is harmful to aquatic life.

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity:

Rainbow trout: EC₅₀ (96-hr) = 321.43 mg/l

Rainbow trout: NOEC (96-hr) = 125 mg/l

Aquatic Invertebrate Acute Toxicity:

Daphnia magna: EC₅₀ (48-hr) = 62.50 mg/l

Daphnia magna: NOEC (48-hr) = 25 mg/l

Aquatic Plant Toxicity: Not determined.

Bird Acute and Prolonged Toxicity: Not determined.

Honeybee Toxicity: Not determined.

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility: Not determined.

Persistence and degradability: Not determined.

Bio-accumulative Potential: Not determined.

Other adverse effects: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste: Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal.

Container: Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container

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three times with a volume of water equal to a minimum of one third of that of the container. Add the rinsing to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Comply with local legislation applying to waste disposal.

health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

14. TRANSPORT INFORMATION

UN Number: Not regulated
 Not classed i.e. considered non-hazardous material according to UN Orange Book and international transport codes e.g. RID (rail), ADR (road) and IMDG (sea).

Special/Environmental Precautions: None known.
Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not available.

END OF DOCUMENT

Compiled: October 2015
Reviewed: July 2022
Revision no.: (4)
Next revision: July 2027

For detailed information on revisions, contact the Registration holder.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:
 OSHA 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: None.

Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

Packaging: Packed in 500 ml, 1; 5; 10 and 20 litres fluorinated plastic containers, labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H402: Harmful to aquatic life.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization.

LD₅₀ value: The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

OEL/RL: Occupational exposure limit-recommended limit.

TWA: Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.

ST/STEL: Short-term exposure limits.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to